VOLUME CONTENTS

Number 1

C. P. Tsai	1	Wave-induced Liquefaction Potential in a Porous Seabed in Front of a Breakwater
Jaw-Fang Lee	19	On the Heave Radiation of a Rectangular Structure
M. S. Kirkgöz	35	Breaking Wave Impact on Vertical and Sloping Coastal Structures
E. T. Huang and Yuh-Lin Hwang	49	Second Order Approximation of Wave–Structure Couplings
G. D. Hahn	65	Force Resultants for Deep-water Wave-excited Offshore Structures
Technical Note *S. Nallayarasu, Cheong Hin Fatt and N. Jothi Shankar*	77	Estimation of Incident and Reflected Waves in Regular Wave Experiments
Technical Note *R. Baubeau and R. Latorre*	87	Numerical Study of Hydrofoil Boundary Layers
Technical Note *P. A. A. Laura and R. H. Gutierrez*	97	Analysis of Vibrating Circular Plates of Nonuniform Thickness by the Method of Differential Quadrature
Technical Note *R. H. Gutierrez and P. A. A. Laura*	101	Analysis of Vibrating, Thin, Rectangular Plates with Point Supports by the Method of Differential Quadrature
Technical Note *D. R. Avalos, H. Larrondo and P. A. A. Laura*	105	Transverse Vibrations and Buckling of Circular Plates of Discontinuously Varying Thickness Subject to an In-plane State of Hydrostatic Stress
Technical Note *P. Vethamony*	111	Wave Attenuation Characteristics of a Tethered Float System
	131	Books Received
	133	News and Notices

Number 2

Songping Zhu and Pornchai Satravaha	135	Second-order Wave Diffraction Forces on a Vertical Circular Cylinder due to Short-crested Waves
S. W. Twu and C. C. Liu	191	A Theoretical Study on a Permanent Wavefilter
A. Huggins and A. R. Packwood	207	Wind Tunnel Experiments on a Fully Appended Laminar Flow Submersible for Oceanographic Survey
M. Hinchey & K. Muggeridge	223	Potential for Subsea Robot Control

Number 3

P. A. A. Laura	235	Optimization of Variational Methods
R. S. Bisht and A. K. Jain	251	Second-order Drift Force Response of Offshore Guyed Towers
S. K. Chakrabarti, A. R. Libby and P. Palo	271	Small-scale Testing on Current-induced Forces on a Moored Tanker

Number 4

Bang-Fuh Chen	301	The Significance of Earthquake-induced Dynamic Forces in Coastal Structures Design
C. H. Jenkins, J. W. Leonard, J. S. Walton and E. B. Carpenter	317	Experimental Investigation of Moored-buoys Using Advanced Video Techniques
C. C. K. Liu and Qiao Jin	337	Artificial Upwelling in Regular and Random Waves

C.-M. Staschen, A. Ewert and D. Bartsch	351	A Thermodynamic Analysis of Chamber Compression
A. S. Chitrapu and R. C. Ertekin	367	Time-domain Simulation of Large-amplitude Response of Floating Platforms
B. Daoud and J.-M. Kobus	387	Irregular Wave Generation Method with Given Characteristics in Experimental Tanks
Technical Note *J. A. Witz*	411	Parametric Excitation of Crane Loads in Moderate Sea States

Number 5

Sheng-Wen Twu and Jyh-Jong Duann	421	An Approach for Eliminating Re-reflected Waves
J. K. W. Lo, S. P. Tomlinson, I. A. Himmens and P. J. Tanner	439	Computer Simulation to Assess the Performance of a Submarine Escape System
T. L. Walton Jr	457	A Tale of Two Wave Trains
D. K. Sunil and M. Mukhopadhyay	489	Free Vibration of Semisubmersibles:a Parametric Study
	503	Announcements

Number 6

Ching-Piao Tsai and Tsong-Lin Lee	505	Standing Wave Induced Pore Pressures in a Porous Seabed
A. V. Hegde and R. P. Srinivas	519	Effect of Core Porosity on Stability and Run-up of Breakwaters

Yong Kwun Chung, Jin Soo Lim and Jung Han Chung	527	Variations of Amplitude, Wavelength and Phase Velocity of Plane Progressing Waves Over Uniformly Sloping Beaches
P. A. A. Laura, L. Ercoli and S. La Malfa	545	Feasibility of Detection of Cable Failure Using Infra-red Technology
P. A. A. Laura	551	Evaluating the Structural Condition of Synthetic and Metallic Cables
V. Wilczynski and W. J. Diehl	563	An Alternative Approach to Determine a Vessel's Center of Gravity: the Center of Buoyancy Method
W. C. Webster	571	Mooring-induced Damping
D. Dumlu and Y. Istefanopulos	593	Design of an Adaptive Controller for Submersibles via Multimodel Gain Scheduling
P. Boccotti	615	A Field Experiment on the Small-scale Model of a Gravity Offshore Platform
G. Müller and T. J. T. Whittaker	629	Visualisation of Flow Conditions Inside a Shoreline Wave Power-station
M. Söylemez	643	Motion Tests of a Twin-hulled Semi-submersible
	661	Books Received

Number 7

R. H. Gutierrez, R. E. Rossi and P. A. A. Laura	663	Determination of the Fundamental Frequency of Transverse Vibration of Rectangular Plates when the Thickness Varies in a Discontinuous Fashion
I. R. Young	669	The Determination of Confidence Limits Associated with Estimates of the Spectral Peak Frequency

N. Suchithra and P. M. Koola 687 A Study of Wave Impact on Horizontal Slabs

P. R. Payne 699 Contributions to Planing Theory

L. L. Broderick and J. W. Leonard 731 Nonlinear Response of Membranes to Ocean Waves Using Boundary and Finite Elements

G. Anandkumar, V. Sundar, K. U. Graw and H. Kaldenhoff 747 Pressures and Forces on Inclined Cylinders due to Regular Waves

Letter to the Editor

P. A. A. Laura 761 Comments on "Dynamic Analysis of Three-dimensional Marine Cables"

Book Review

763 *"Renewable Energy from the Oceans: a Guide to OTEC"* by W. H. Avery and Chih Wu

Number 8

E. B. Carpenter, J. W. Leonard and S. C. S. Yim 765 Experimental and Numerical Investigations of Tethered Spar and Sphere Buoys in Irregular Waves

G. X. Wu and R. Eatock Taylor 785 Time Stepping Solutions of the Two-dimensional Nonlinear Wave Radiation Problem

J. H. Vazquez and A. N. Williams 799 Wave Radiation by a Three-dimensional Body in a Narrow Tank

I. G. Jonsson and L. Arneborg 819 Energy Properties and Shoaling of Higher-order Stokes Waves on a Current

Technical Note

V. Mallayachari and V. Sundar 859 Standing Wave Pressures due to Regular and Random Waves on a Vertical Wall

881 Call for Papers

Volume 22 Title Section, Contents and Author Index i